



Date: March 5, 2014

To: Thomas J. Bonfield, City Manager

Through: W. Bowman Ferguson, Deputy City Manager

From: Joseph W. Clark, Fleet Management Director
Rik Rasmussen, Radio System Manager

Subject: Interlocal Cooperation Agreement between the City of Durham and the City of Fayetteville for use of the City's 800 MHz Radio System

Executive Summary

The City of Durham is the licensee for the Durham 800 MHz Radio System used by all public safety agencies and other departments in Durham City and County governments. The City of Fayetteville wishes to share certain resources of the City's 800MHz radio system. Fayetteville has contracted with Motorola Solutions to upgrade and expand its 800 MHz radio system and desire to share the Central Core Computer Controller of the Durham system to operate its radio system. Such sharing allows Fayetteville to gradually up-grade, spreading costs over several years, similar to the upgraded phased approach used by Durham. The examination of the request indicated no adverse effect on Durham's radio system's capacity or functionality, and therefore the extra revenue comes without negative impact.

Recommendation

To authorize the City Manager to execute an interlocal agreement with the City of Fayetteville to allocate certain radio system resources for use by the City of Fayetteville, and setting the terms and payment for the shared resources.

Background

The City of Fayetteville is currently utilizing an 800MHz radio system, which they recently contracted with Motorola to upgrade to the APCO P25 Public Safety standard (compatible with the City of Durham's new radio system.) Fayetteville has approached the City of Durham with a request to lease a portion of Durham's server capacity to help route traffic on their radio network.

An analysis of the request indicated no adverse impact on the radio system's capacity or functionality. Fayetteville's radio traffic will not utilize Durham's radio channels and will be sharing computer systems only. The Fayetteville radio system

will utilize leased data circuits to connect to the Durham core system servers located at Durham's primary site at the Camden Avenue radio tower. Servers will provide system management, dispatch terminal configurations, and user access database service for the Fayetteville system. The City will not maintain any equipment in Fayetteville.

The relationship being proposed with Fayetteville would be similar to that which the City currently has with Durham County and North Carolina Central University (NCCU) via exiting interlocal agreements. The proposed Interlocal Agreement with Fayetteville was modeled after the existing agreement with NCCU. The proposed agreement dictates the responsibilities of both governments and provides for a means of calculating and charging Fayetteville fees to share the cost of resources used to provide them their service.

Fayetteville has reviewed the proposed agreement and has asserted their willingness to adopt it should Durham agree to the terms and conditions.

Issues/Analysis

The City of Durham maintains the radio system at a high level of reliability and readiness due to its vital role in public safety. The new Durham radio system consists of twenty-four (24) radio channels, receiving and transmitting from four (4) radio towers. The system has forty-two (42) dispatch console positions located at four (4) locations. All of this equipment is controlled by a central core computer system, utilizing servers and data network equipment all connected by a microwave radio system. The Central Core Computer Controller in the new Durham P25 system is capable of managing 700 radio channels at 100 sites. Durham will be using 24 channels, the City of Fayetteville will be using 10. Durham and Fayetteville are each considered a separate site. Therefore, there is no operational impact to the City to lease out our additional capacity, and doing so will generate additional revenue to offset costs in maintaining the radio system.

It is only the central core computer system that Fayetteville wishes to share. This agreement will allow the City and Fayetteville to use the radio system cooperatively to support public safety needs and share the costs, providing savings to all parties.

The agreement may be terminated by mutual agreement, unilaterally, for material breach, and due to force majeure. Specific language regarding termination is located in section 17 of the agreement.

Alternatives

If the City chooses not to enter into this agreement, the City of Fayetteville could continue using their current vendors/methods to operate their radio system.

If the agreement is passed, the City will bill Fayetteville annually for a prorated share of the City's costs of maintaining the radio system. The first billing would be in January 2015 for payment in July 2015. The annual revenue for the first year is estimated at \$183,208.94. The actual amount of revenue generated will change from year to year and is based upon the City of Fayetteville paying a percentage of the City's actual maintenance expenses from the previous year and the annualized system investment. The formula is presented in Exhibit 1.

Calculations for Fayetteville Interlocal Agreement for Radio System Sharing									
	Radio Count								
		Durham				3689	60%		
		Fayetteville			A	2500	40%		
		Total			B	6189	100%		
		2012 Maintenance Expense					\$561,572.31		
		Per Radio Fee					\$90.74	C	
		Fayetteville% of resources Shared					22%	D	
		Annual Fayetteville Radio System Maintenance Fee share					\$49,905.44	A*C*D	
		System Investment					\$15,000,000.00		
		Life in Years					10		
		Annualized Investment					\$1,500,000.00	E	
		Annualized Investment Per Radio					\$242.37	F	E/B
		Annual Fayetteville Investment Recovery Fee					\$133,303.50	A*D*F	
		Total Estimated Annual Fees for Fayetteville					\$183,208.94		

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Exhibit 2

Summary of Proposed Durham County Invoice						
		Total Management and Maintenance Expense				\$ 547,973.68
		Less: Annual Fayetteville Radio System Maintenance Fee				\$ 49,905.44
		Net City/County Management and Maintenance Expense				\$ 498,068.23
			County	41%		\$ 204,207.98
		Annual Fayetteville Investment Recovery Fee			\$133,303.50	
					50% share	\$ 66,651.75
			Net/Net Due from County			\$ 137,556.23
		Radio Count	County	1527	41%	
			City	2061	56%	
			NCCU	101	3%	
			Total	3689		

SDBE Summary

This agreement does not require a review for compliance with the City's Ordinance to Promote Equal Opportunity in City Contracting.

Attachment

Interlocal Cooperation Agreement